

ABSTRACT

An optical transmission system includes : an optical transmitting device; and an optical receiving device. The optical transmitting device includes : an encoder for encoding a data signal with an error-correcting code; and an optical transmitter, and the optical receiving device includes an optical receiver and a decoder. The decoder error-corrects a received signal to provide error rate information. The optical transmitter controls a chirp coefficient of an electroabsorption modulator based on the error rate information to minimize errors or error rate.

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